## FUEL CELL WITH PASSIVE WATER BALANCE

## Abstract of the Disclosure

A fuel cell includes a membrane electrode assembly 5 (46) having a first reactant flow field (80) secured adjacent a first or second surface (48, 50) of the assembly (46) for directing flow of a first reactant adjacent the first or second surface of the assembly 10 The first reactant flow field (80) defines a plurality of two-pass circuits (82, 84, 86, 88), and each two-pass circuit (82) is in fluid communication with both a first reactant inlet (90) for directing the first reactant into the fuel cell (12), and with a first 15 reactant outlet (92) for directing the first reactant out of the fuel cell (12). The plurality of two-pass circuits (82) facilitate water movement (112) toward the reactant inlet (90) to aid in passive maintenance of fuel cell (12) water balance.